

Title (en)

Device and method for holographic reflection imaging

Title (de)

Vorrichtung und Verfahren für die holografische Reflektionsabbildung

Title (fr)

Dispositif et procédé d'imagerie par réflexion holographique

Publication

**EP 2657792 B1 20171115 (EN)**

Application

**EP 12165341 A 20120424**

Priority

EP 12165341 A 20120424

Abstract (en)

[origin: EP2657792A1] A holographic imaging device (100) for imaging an object under study (104) comprises a reflective surface (103), at least one radiation source (102) for directing a radiation wave (107) towards said reflective surface (103) and the object under study (104), and an image sensor (101) arranged to receive said radiation wave (107) when reflected by said reflective surface (103) and by said object under study (104). The image sensor (101) is adapted for determining an interference pattern between said radiation wave (107) reflected by the reflective surface (103) and said radiation wave reflected by the object under study (104). The holographic imaging device is adapted for directly directing the radiation wave reflected by the object under study (104) towards the image sensor (101).

IPC 8 full level

**G03H 1/04** (2006.01); **G03H 1/00** (2006.01); **G03H 1/02** (2006.01)

CPC (source: EP US)

**G03H 1/0402** (2013.01 - US); **G03H 1/0443** (2013.01 - EP US); **G03H 1/0465** (2013.01 - EP US); **G03H 2001/005** (2013.01 - EP US); **G03H 2001/0212** (2013.01 - EP US); **G03H 2001/0447** (2013.01 - EP US); **G03H 2226/11** (2013.01 - EP US)

Cited by

EP4016190A1; CN108364296A; EP4016191A1; EP3460585A1; US11307533B2; US10267998B2; US10697882B2; WO2019057768A1; WO2016107849A1; WO2015150589A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**EP 2657792 A1 20131030**; **EP 2657792 B1 20171115**; JP 2013228735 A 20131107; JP 6091314 B2 20170308; US 2013278981 A1 20131024; US 9291998 B2 20160322

DOCDB simple family (application)

**EP 12165341 A 20120424**; JP 2013091382 A 20130424; US 201313869303 A 20130424